



Amoco Production Company

November 5, 1987

Utah Division of Oil, Gas & Mining  
355 West North Temple  
3 Traid Center, Suite 350  
Salt Lake City, Utah 84180

Re: Mancos Mesa Unit #1-B Well located in the  
SE/4 SE/4, Sec. 2, T37S, R13E  
San Juan County, Utah

Amoco Production Company herewith submits for your approval an APD for the Mancos Mesa Unit #1-B well located in the SE/4, SE/4, Sec. 2, T37S, R13E, San Juan County, Utah.

An APD for the Mancos Mesa Unit #1 was approved on August 26, 1987 and assigned an API #43-037-31337 with a surface location of 570' FSL & 1010' FEL of Section 2, T37S, R13E. The original hole was plugged and the rig skidded on 10-12-87. The Mancos Mesa Unit #1-A well was approved with an API #43-037-31355. This hole was P & A'd on 11-4-87, and the rig skidded on 11-5-87.

All water used for both the camp and drilling operation will be commercially transported from a public access located in Hite, Utah. Potable water will be provided by the Utah State Parks at Hite Marina.

An alternate source would be located at the Frye Canyon General Store.

A Special Use Lease Application was approved prior to submittal of the APD for our staging area located in the NE/4 of Section 16, T35S, R15E, San Juan County, Utah.

If you should have any questions regarding the material enclosed please contact Karen Gollmer at (307) 783-2234.

Thank you,

*R.M. Ramsey*  
R. M. Ramsey  
Dist Admn Supv

/kg

Encl.

RECEIVED

NOV 6 1987

DIVISION OF OIL  
& GAS

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil Well ☒Gas Well ☐Other ☐Single Zone ☐Multiple Zone ☐

2. Name of Operator

AMOCO PRODUCTION COMPANY

NOV 6 1987

3. Address of Operator

P. O. BOX 829, EVANSTON, WYOMING 82930

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

595' FSL &amp; 980' FEL

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

68 miles North from Section 2 to Hanksville, Utah

15. Distance from proposed\*

location to nearest  
property or lease line, ft.  
(Also to nearest drlg. line, if any)

595'

16. No. of acres in lease

17. No. of acres assigned  
to this well18. Distance from proposed location\*  
to nearest well, drilling, completed,  
or applied for, on this lease, ft.

19. Proposed depth

2230'

20. Rotary or cable tools

Rotary Air

21. Elevations (Show whether DF, RT, GR, etc.)

5242' GR

22. Approx. date work will start\*

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
7 7/8"	6"	20#	100'	50 SX
5 7/8"	4 1/2"	13.5#	1800'-2000'	50 SX

AMOCO PRODUCTION COMPANY PROPOSES TO DRILL AND  
EVALUATE THE WHITE RIM FORMATION.

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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program if any.

24.

Signed

Title Administrative Supervisor

Date 11-5-87

(This space for Federal or State office use)

Permit No.

43-037-31359

Approval Date

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

Approved by

Title

Conditions of approval, if any:

DATE: 11-9-87

\*See Instructions On Reverse Side

WELL SPACING: R615-2.3

# 10-Point Drilling Program

## Mancos Mesa Unit #1-B

- 1) Geologic name of the surface formation: Navajo
- 2) Estimated tops of geological markers:

<u>Formation</u>	<u>Depth</u>
Kayenta	350'
Wingate	575'
Chinle	990'
Moenkopi	1,995'
*White Rim	2,140'
Organ Rock	2,225'
Total Depth	2,230'

- 3) Anticipated depths to encounter water, oil, gas or other mineral-bearing formations:

<u>Substances</u>	<u>Depth</u>
Oil Gas, Water	2,140'

- 4) Casing Program:

<u>Hole Size</u>	<u>Casing</u>	<u>Wt/Ft</u>	<u>Grade</u>	<u>Threads</u>	<u>Cementing Depth</u>
7 7/8"	6"	20#	K55	FL4S	100'
5 7/8"	4 1/2"	13.5#	K55	FL4S	1800' - 2000'

- 5) Operators minimum specifications for pressure control equipment are explained on the attached schematic diagram. After running surface casing and prior to drilling out, the BOP and other pressure equipment will be installed and mechanically operated. The BOP will be checked daily for mechanical operations only and will be noted on the IADC Daily Drilling Report.

- 6) Mud Program:

<u>Interval</u>	<u>Type Mud</u>	<u>Wt #/gal</u>	<u>Viscosity</u>	<u>WL CC/30M</u>
0-100'	Air		Air	
0-1800'-2000'	Air		Air/Mist	Until water is encountered
1800'-TD	LSND	8.6-8.8#	Mud weight as required to control wellbore.	

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7) Auxiliary Equipment:

Kelly cock; hand held H<sub>2</sub>S monitors; coring equipment and handling/transport boxes; operator geologists on location...

8) Testing Program:

None

Logging Program:

Core Gamma Log on Recovered Core

Coring Program:

A continuous core will be taken from 1800' - TD

9) No abnormal pressures or temperatures are anticipated.

10) Anticipated starting date will be when approved and the duration of drilling operations will be approximately 45 days.

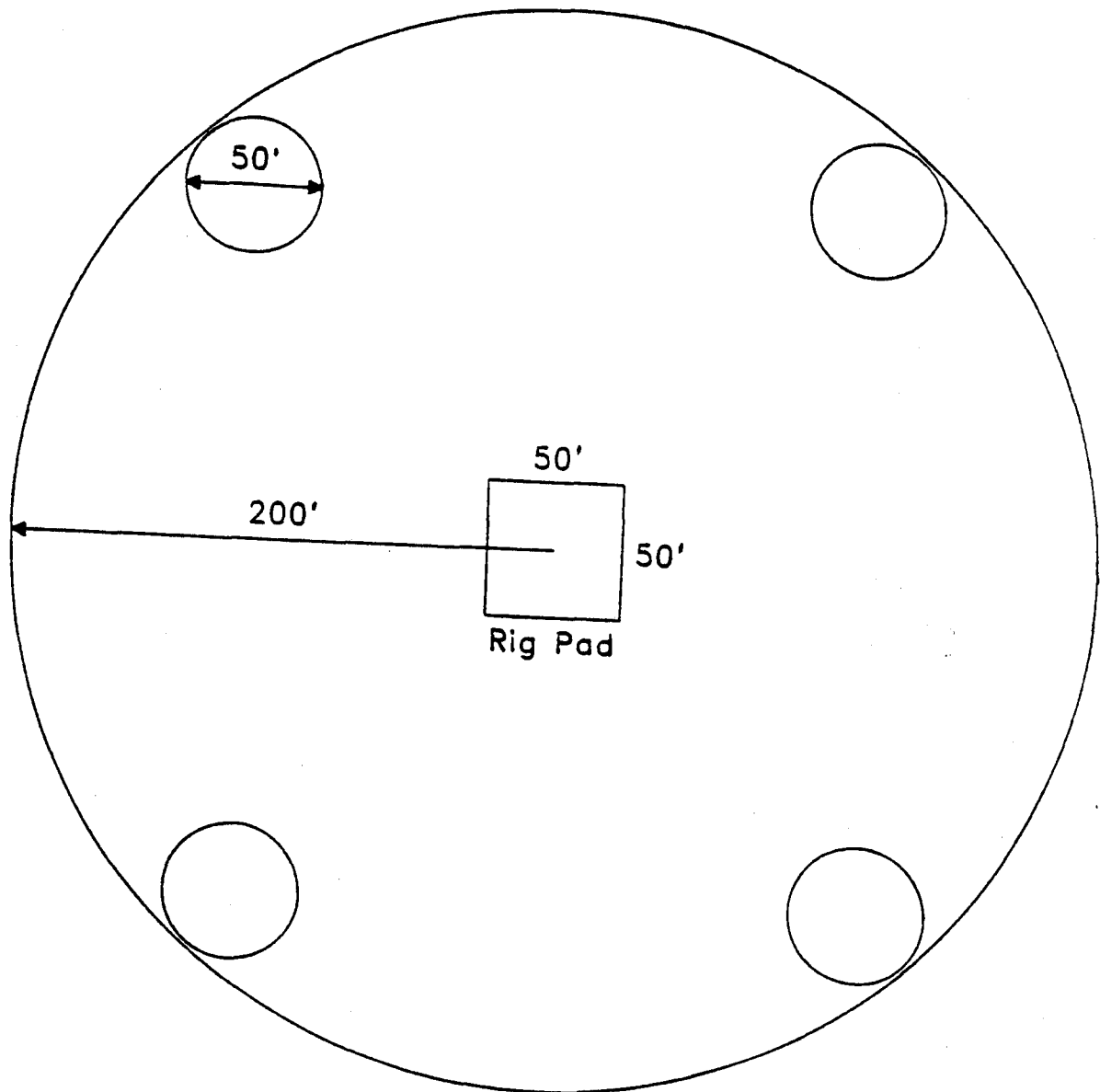
The proposed program for the above referenced well in the event a pressurized aquifer is penetrated would be to shut the well in and perform standard well control operations. It should be noted that no abnormal pressures are anticipated and sufficient BOP equipment will be installed.

To accommodate any excess liquids from a flowing aquifer, a holding tank will be placed on location. The holding tank will be in addition to the proposed blow-out prevention equipment and the typical methods of stopping a liquid influx through mud column hydrostatic pressures.

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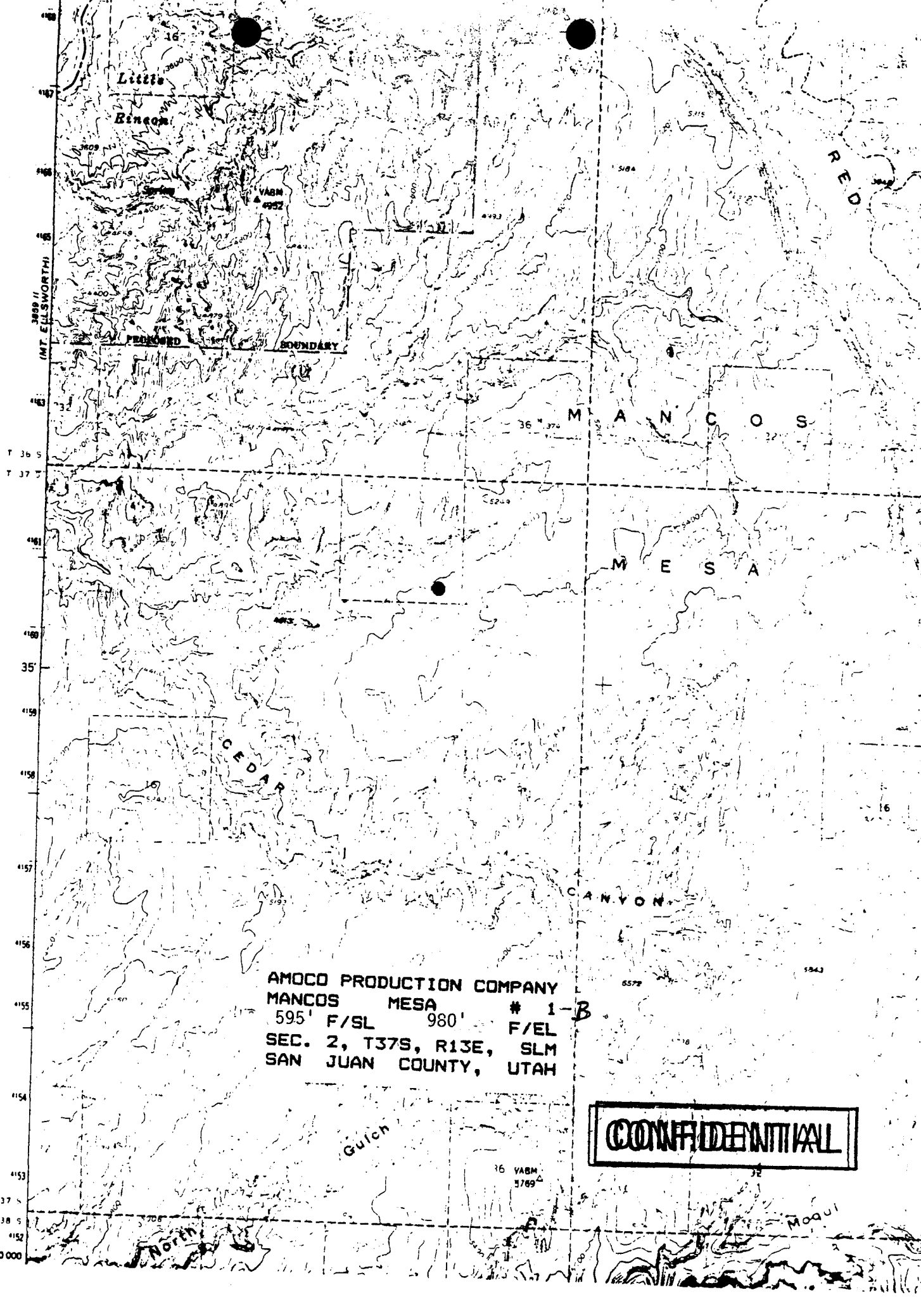
# Mancos Mesa #1-B Surface Location Layout

200' Radius Circle centered around a point  
595' FSL, 980' FEL Section 2, T37S, R13E



Helicopter pads will be positioned 150' from wellbore to  
provide access based on wind direction.

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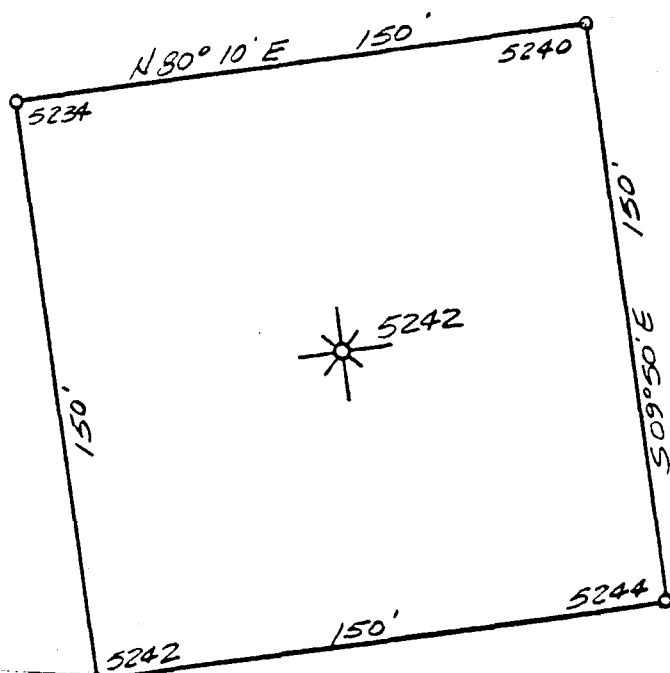


AMOCO PRODUCTION COMPANY  
MANCOS MESA # 1-B  
595' F/SL 980' F/EL  
SEC. 2, T37S, R13E, SLM  
SAN JUAN COUNTY, UTAH

**CONFIDENTIAL**

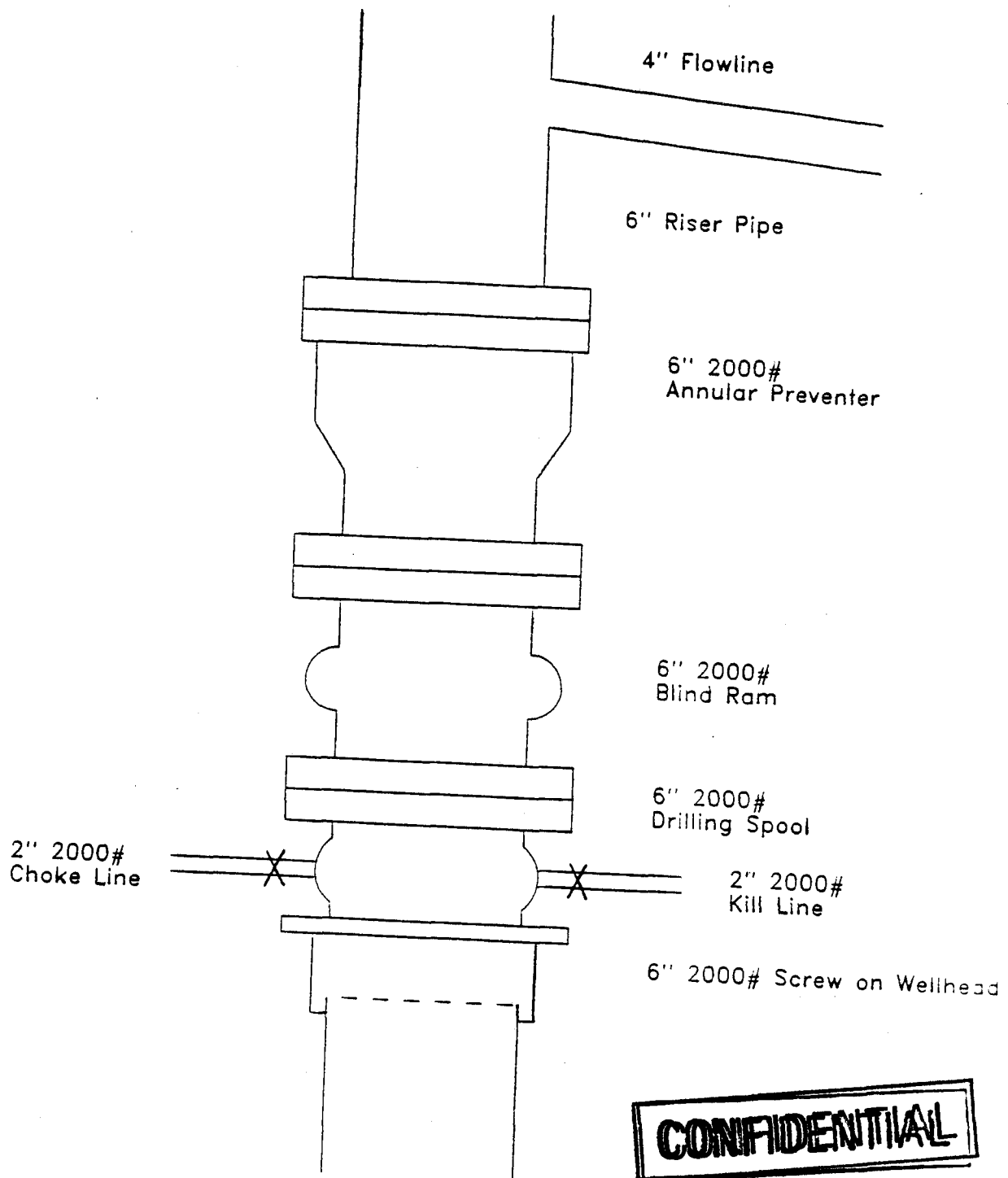
AMOCO PRODUCTION COMP  
MANCOS MESA # 1-B  
595' F/SL 980' F/EL  
SEC. 2, T37S, R13E, SLM  
SAN JUAN COUNTY, UTAH

CONFIDENTIAL



SCALE: 1" = 500'  
DATE SURVEYED: JULY 24, 1987

# Mancos Mesa #1-B BOP Diagram





RIG SKI

CONFIDENTIAL

111201 APD

OPERATOR Amoco Production Co DATE 11-6-87

WELL NAME Maneros Mesa Unit #1-B

SEC SE SE 2 T 37S R 13E COUNTY San Juan

43-037-31359

API NUMBER

State

TYPE OF LEASE

CHECK OFF:

☐

PLAT

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 3-14-89

BOND

☐

NEAREST  
WELL

☐

LEASE

☐

FIELD

☐

POTASH OR  
OIL SHALE

PROCESSING COMMENTS:

Rig Skid - Maneros Mesa #1-A

APPROVAL LETTER:

SPACING:

☒

R615-2-3

Maneros Mesa  
UNIT

☐

R615-3-2

☐

CAUSE NO. & DATE

☐

R615-3-3

STIPULATIONS:

1. The conditions of approval established for the  
Maneros Mesa Unit #1 and #1-A wells shall  
apply.
2. The operator shall take appropriate actions to  
resolve  
meet the concerns of the Utah Division of Wildlife  
Resources regarding Desert Bighorn Sheep which  
are present in the area.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

555 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

November 9, 1987

Amoco Production Company  
P. O. Box 829  
Evanston, Wyoming 82930

Gentlemen:

Re: Mancos Mesa Unit #1-B (Rig Skid) - SE SE Sec. 2, T. 37S, R. 13E  
595' FSL, 980' FEL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. The conditions of approval established for the Mancos Mesa Unit #1 and #1-A wells shall apply.
2. The operator shall take appropriate actions to resolve the concerns of the Utah Division of Wildlife Resources regarding Desert Bighorn Sheep which are present in the area.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

Page 2

Amoco Production Company  
Mancos Mesa Unit #1-B (Rig Skid)  
November 9, 1987

5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31359.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: State Lands & Forestry  
Branch of Fluid Minerals  
8159T

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE\*  
(Other instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. ML-35456 <i>Dr.</i>
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME  121601
3. ADDRESS OF OPERATOR P. O. BOX 829, EVANSTON, WY 82930		7. UNIT AGREEMENT NAME Mancos Mesa Unit
4. LOCATION OF WELL (Report location clearly and in accordance with state requirements. See also space 17 below.) At surface  595' FSL & 980' FEL		8. FARM OR LEASE NAME Mancos Mesa Unit
14. PERMIT NO. 43-037-31359		9. WELL NO. #1-B
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5242' GR		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec. 2, T37S, R13E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

P & A

The above referenced well was plugged and abandoned at a total depth of 2216' with the following plugs:

1580' - 1685' 40 gals (4 sacks cement)

0' - 150' 40 gals (1 sack cmt - 5 sacks hole-plug)

A dry hole marker plate was welded onto the casing and buried below ground level.

18. I hereby certify that the foregoing is true and correct

SIGNED

*Denis H. Royle*

TITLE Administrative Supervisor

DATE 12-7-87

(This space for Federal or State Office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions on Reverse Side

DATE: 12-14-87  
BY: *John R. Royle*

**STATE UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN DUPLICATE\*  
 (See other instructions  
 on reverse side)

012111

56 64 01

16

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____										5. LEASE DESIGNATION AND SERIAL NO. ML-35456 PA	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/>										6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY										7. UNIT AGREEMENT NAME Mncos Mesa Unit	
3. ADDRESS OF OPERATOR P. O. BOX 829, EVANSTON, WYOMING 82930										8. FARM OR LEASE NAME Mancos Mesa Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 595' FSL & 980' FEL At top prod. interval reported below At total depth										9. WELL NO. 1-B	
14. PERMIT NO. 43-037-31359; DATE ISSUED 11-09-87										10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DATE SPUDDED 11-12-87 16. DATE T.D. REACHED 11-23-87 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 5242' GR 19. ELEV. CASINGHEAD										11. SEC., T., R., M., ON BLOCK AND SURVEY OR AREA Sec. 2, T37S, R13E	
20. TOTAL DEPTH, MD & TVD 2216' 21. PLUG, BACK T.D., MD & TVD N/A 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY Rotary 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None 25. WAS DIRECTIONAL SURVEY MADE No										12. COUNTY OR PARISH San Juan 13. STATE UT	
26. TYPE ELECTRIC AND OTHER LOGS RUN None 27. WAS WELL CORED Yes											
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
6 5/8"		18.9#		124'		7.875		10 sx			
4 1/2"		11.3#		1258'		5 7/8		24 sx			
29. LINER RECORD											
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		30. TUBING RECORD	
										SIZE DEPTH SET (MD) PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number)											
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.											
DEPTH INTERVAL (MD)						AMOUNT AND KIND OF MATERIAL USED					
33. PRODUCTION											
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)			
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BSL.		GAS—MCF.	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BSL.		GAS—MCF.		WATER—BSL.	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY	
35. LIST OF ATTACHMENTS											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
SIGNED		TITLE District Drilling Supervisor						DATE 1-15-88			

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 36.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

DSTs None

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Chinle	1250'	1752'			
Moenkopi	1752'	2150'			
Organ Rock	2150'	2216'			
Core depths and formation 100% recovery from 1250' to 2216'					